2F04227-PCT

FIG.1

BASE STATION

MOBILE STATION

ANTENNA

5

FIG.2 FIG.3 FIG.6 FIG.7 FIG.8 FIG.11 FIG.12
ANTENNA

- 101 201 TRANSMISSION/RECEPTION SWITCHING SECTION
- 102 202 RADIO RECEPTION PROCESSING SECTION
- 10 103 203 ADJACENT CELL PILOT EXTRACTING SECTION
  - 104 204 RECEPTION POWER MEASURING SECTION
  - 105 205 PILOT EXTRACTING SECTION
  - 106 206 CHANNEL ESTIMATION SECTION
  - 107 207 DEMODULATION SECTION
- 15 301 COMBINING SECTION
  - 302 DECODING SECTION

RECEPTION DATA

TRANSMISSION DATA

- 401 CODING SECTION
- 20 402 MODULATION SECTION
  - 403 RADIO TRANSMISSION PROCESSING SECTION
  - 404 TRANSMISSION ANTENNA SELECTING SECTION

FIG.3 FIG.7 FIG.8 FIG.11 FIG.12

25 108 208 RECEPTION POWER MEASURING SECTION

FIG.3 FIG.7 FIG.12

109 209 POWER RATIO CALCULATING SECTION

405 TRANSMISSION POWER CONTROL SECTION

5 FIG.4

AVERAGE INTERFERENCE POWER

CONVENTIONAL METHOD

EMBODIMENT 2

10 FIG.5

ANTENNA

BASE STATION

MOBILE STATION

15 FIG.6

110 210 COMBINING SECTION

N

FIG.7

20 111 211 COMBINING SECTION

FIG.8

112 212 MCS DETERMINING SECTION

406 MCS COMPARING SECTION

25

FIG.9

MCS LEVEL

## RECEPTION POWER IN MOBILE STATION

FIG.10

START

- ST10 MEASURE RECEPTION POWER | p11 | , | p12 |
- 5 ST20 OBTAIN MCS LEVELS L<sub>1</sub>, L<sub>2</sub>
  - ST30  $L_1=L_2$  ?
  - ST40 SELECT ANTENNA WITH HIGHER MCS LEVEL
  - ST50 MEASURE RECEPTION POWER | p21 | , | p22 |
  - ST60  $|p_{21}| < |p_{22}|$ ?
- 10 ST70 SELECT ANTENNA 1
  - ST80 SELECT ANTENNA 2

FIG.11 FIG.12

407 AVERAGING SECTION